

WHAT IS CLAIMED IS:

1. A fuel intake device for a vehicle, comprising a body portion pivotally mounted to be moveable between an open position and a closed position, and which defines a fuel intake passage that is in communication with a fuel intake pipe of the vehicle when in its open position.
2. The fuel intake device of claim 1 and further including a pressurization valve that is aligned with the fuel intake passage of the vehicle fuel pipe and is operable when the fuel intake device is in the closed position.
3. The fuel intake device of claim 2, wherein a passageway is provided in the fuel intake device that allows testing of the pressurization valve without removal.
4. The fuel intake device of claim 1 and further including a depressurization valve that is aligned with the fuel intake passage of the vehicle fuel pipe and is operable when the fuel intake device is in the closed position.
5. The fuel intake device of claim 4, wherein a passageway is provided in the fuel intake device that allows testing of the depressurization valve without removal.
6. A fuel intake device cover for a vehicle, comprising a body portion pivotally mounted along a surface of a vehicle so as to be moveable between an open position and a closed position, and which seals or unseals a fuel intake passage to enable a flow of fuel into a fuel intake pipe of the vehicle when moved to its open position.

7. A fuel intake device for a vehicle comprising:
- a housing;
- a body pivotally mounted within said housing and defining an intake passage for receiving a fuel flow therethrough; and,
- wherein the body is pivotal within said housing from a closed position to an open position to move the intake passage into registration with a fuel intake pipe of the vehicle.
8. The fuel intake device of claim 7, wherein the body is cylindrical.
9. The fuel intake device of claim 7, wherein the body is formed of metal.
10. The fuel intake device of claim 9, wherein the metal is aluminum.
11. The fuel intake device of claim 7, wherein the body is formed of a corrosion resistant synthetic material.
12. The fuel intake device of claim 7, wherein the body is formed of plastic.
13. The fuel intake device of claim 7, and further comprising a cover mounted to the body to be moveable therewith.

14. The fuel intake device of claim 13, wherein the housing is positioned within a surface of the vehicle and the cover includes an appearance corresponding to the surface of the vehicle.

15. The fuel intake device of claim 13, wherein the cover is substantially flush with a surface of the vehicle when in the closed position.

16. The fuel intake device of claim 15, wherein the cover includes a lock.

17. The fuel intake device of claim 7, wherein the vehicle includes a gas tank connected to the intake pipe for receiving the fuel flow.

18. The fuel intake device of claim 7, wherein the intake passage of the body is in communication with the fuel intake pipe when the body is in its open position and is not in communication when in its closed position.

19. The fuel intake device of claim 18, wherein the flow passage and body are capable of receiving a fuel pump nozzle and retaining the nozzle to not allow return of the body to the closed position during fueling.

20. The fuel intake device of claim 7 and further including a pressurization valve that is aligned with the fuel intake passage of the vehicle fuel pipe and is operable when the fuel intake device is in the closed position.

21. The fuel intake device of claim 20, wherein a passageway is provided in the fuel intake device that allows testing of the pressurization valve without removal from the fuel intake device.

22. The fuel intake device of claim 7 and further including a depressurization valve that is aligned with the fuel intake passage of the vehicle fuel pipe and is operable when the fuel intake device is in the closed position.

23. The fuel intake device of claim 22, wherein a passageway is provided in the fuel intake device that allows testing of the depressurization valve without removal from the fuel intake device.

24. The fuel intake device of claim 7 and further including a pressurization valve and a depressurization valve that are aligned with the intake passage of the fuel intake pipe when the fuel intake device is in the closed position.

25. The fuel intake device of claim 24, wherein the pressurization valve and a depressurization valve are housed on a removable cap.

26. The fuel intake device of claim 25, wherein the removable cap is screw-threaded into the body and communicates with a relief passageway.

27. The fuel intake device of claim 26, wherein the removable cap includes indentations that facilitate removal and can be locked into place in an airtight manner.

28. A method of inputting a flow of fuel into a vehicle comprising:
pivoting a body capable of receiving a fuel pump nozzle from a closed position to an open position in communication with a fuel intake pipe of the vehicle;
receiving the flow of fuel through the body into a flow passage of the fuel intake pipe for transmission into a tank in the vehicle; and,
after completion of a fuel operation, removing the fuel pump nozzle and pivoting the body from the open position to the closed position.

29. The fueling method of claim 28, further comprising sealing the flow passage when the body is in the closed position.

30. A fuel intake system for a vehicle comprising:
a fuel intake pipe connected to a fuel tank of the vehicle and having an inlet end for receiving a flow of fuel;
at least one coil mounted along the fuel intake pipe and including an inlet end and an outlet; and,
a fume tube extending along the fuel intake pipe and in communication with the fuel intake pipe;
wherein the at least one coil extends through the fuel intake pipe and is connected to the fume tube so as to direct fumes from the fuel tank to the fume tube for recovery.

31. The fuel intake system of claim 30, wherein the fuel intake pipe further comprises an expanded section having a diameter greater than a diameter at each end section of the fuel intake pipe.

32. The fuel intake system of claim 30, wherein the at least one coil is sized to permit a fuel flow to pass through the fuel intake pipe.

33. The fuel intake system of claim 30, wherein the inlet end of the at least one coil receives fuel fumes displaced from the fuel tank by the flow of fuel.

34. The fuel intake system of claim 33, wherein the fuel flow cools the at least one coil as the fuel flow passes through the fuel intake pipe to promote condensing of the fuel fumes passing through the at least one coil.

35. The fuel intake system of claim 30, and further comprising a body pivotally mounted adjacent the inlet end of the fuel intake pipe, defining a flow passage and moveable from an open position in communication with the fuel intake pipe and a closed position so as to substantially seal the inlet end of the fuel intake pipe.

36. The fuel intake system of claim 35, and further including a housing mounted in the vehicle and which pivotally receives the body therein.

37. The fuel intake system of claim 35, wherein the body is formed from a corrosion resistant material.

38. The fuel intake system of claim 35, wherein the housing is positioned within a surface of the vehicle and the cover includes an appearance corresponding to the surface of the vehicle.

39. The fuel intake system of claim 30, wherein the fume tube proceeds along an exterior portion of the fuel intake pipe.

40. The fuel intake system of claim 30, wherein the fume tube extends along an interior portion of the fuel intake pipe.

41. A method for fueling a vehicle comprising:
inputting a flow of fuel into a fuel tank of the vehicle through a fuel intake pipe;
receiving fuel fumes displaced by the flow of fuel filling the fuel tank through at least one coil that passes through the fuel intake pipe;
at least partially condensing the fuel fumes passing through the at least one coil; and,
returning the partial amount to a fuel tank of the vehicle.

42. The method of claim 41 and further comprising:
dispensing the fuel fumes from the at least one coil into a fume tube that proceeds along the fuel intake pipe.

